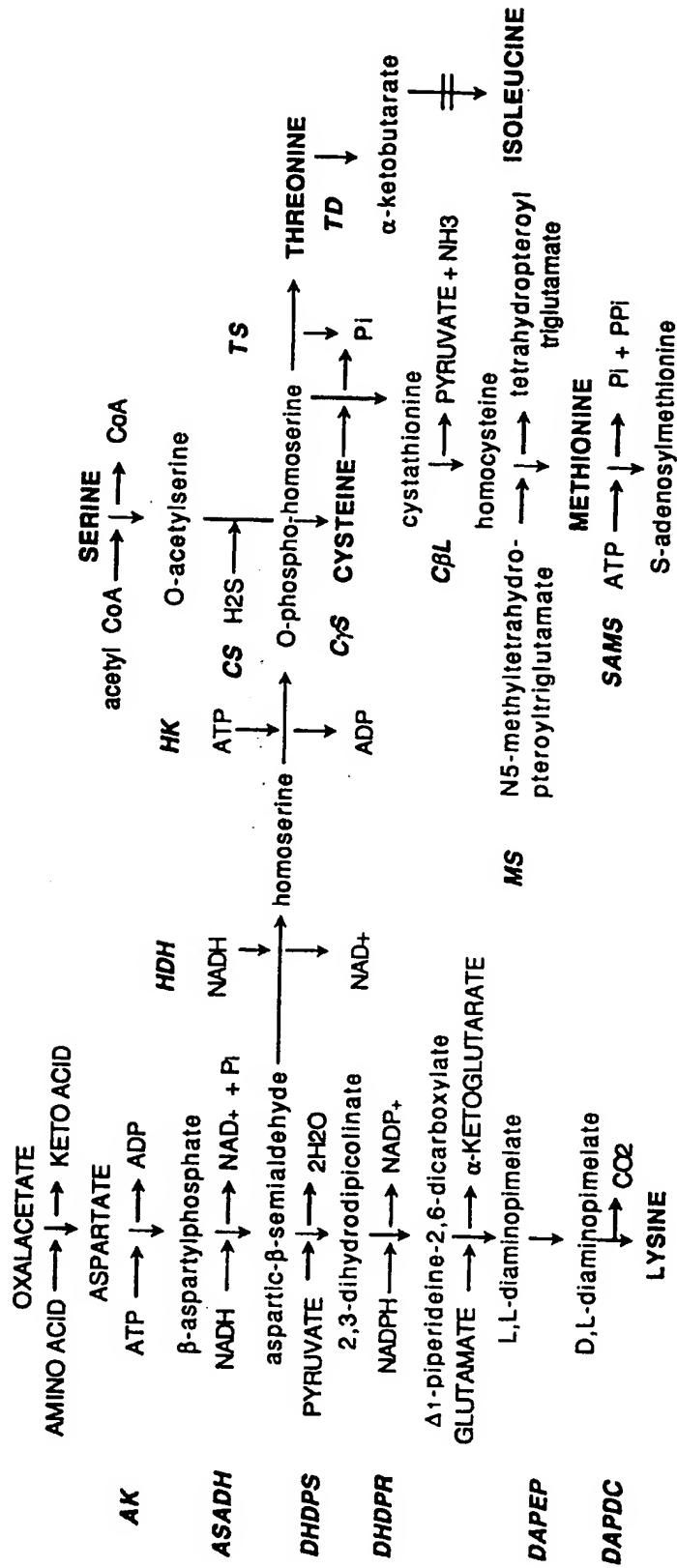


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FIG. 1



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FIG. 2

SEQ	ID NO: 4	1	60
SEQ	ID NO: 2	KIGRRNAA. . .
SEQ	ID NO: 5	MANQDLIPVVNGAAGRMGREVIKAVAQAPDLQLVGAVDHNPSLOGQDIGEWVGIAPLEV	AGQISGMD. EPLEI
SEQ	ID NO: 4	61	120
SEQ	ID NO: 2	.....KVILCSTQMPPSQSTI. . .	KVVIIGATKEIGRTAIAAVSKARGMELAGAID.
SEQ	ID NO: 5	PVLNDLTMVLGSIAQSRAATGVVVDFSEPSAVYDNVKQAAAFGLSSVVVPKIELETVTEL	.....
SEQ	ID NO: 4	121	180
SEQ	ID NO: 2	.....S.OCI. . . GLDAGEI. . .	.....SGMGRTLEIPV.
SEQ	ID NO: 5	SAFACEKAS. GCLVAPTLSIGSVLILQQAAIQASFHYSNVEIVESRNP. SDLPSQDARIOA	.....
SEQ	ID NO: 4	181	240
SEQ	ID NO: 2	.....LNDLTMV. . .	.....LGSIAQTRA. . .
SEQ	ID NO: 5	NNISDLGQIYNR. . .	.....EDMDSSSPARGQLLGEDGVRVHSMVLPGLVSSTSINFSGPGEMYT
SEQ	ID NO: 4	241	276
SEQ	ID NO: 2	.....NVKQA. . .	.....
SEQ	ID NO: 5	QMLAEMGKTFNPPAVEEKEETIAGKGL. GPGQIPIHSIRLPGLIAHQEVLFGSPGQLYT	IRHDTTDRACYMPGVLLGIRKVELKGLVYGLEKLL

FIG. 3

SEQ	ID	NO:	7	1	60
SEQ	ID	NO:	9	VS.....	.....
SEQ	ID	NO:	11	MAITATISVPLTPSRRRTLTSVNSLSPSLSTRSTLPTPQRTETKYPNNSRLVSSMSTETAVK	.....
SEQ	ID	NO:	13	.....	.....
SEQ	ID	NO:	14	.....	.....
SEQ	ID	NO:	7	61	120
SEQ	ID	NO:	9	.....	.....
SEQ	ID	NO:	11	TSSASFNLNRKESGGFLHEAKYHGLGNDFVLIDNRDSSSEP	.....
SEQ	ID	NO:	13	ALHFVVKYQGLGNDFIMVDNRDSSAVPKVTPPEEAALKLCDRNFGXGADGV	.....
SEQ	ID	NO:	14	MALSF SKYHGLGNDFILVDNRQSTEPCLTDPDQAQQLCDRHF GIGADGV	.....
SEQ	ID	NO:	7	121	180
SEQ	ID	NO:	9	IFVMPGUNGADYTMRI FNSDGSEPEMCGNGVRCFARFIAELENLQGTNRFTIHTGAGKIV	.....
SEQ	ID	NO:	11	IFVLPGLISGTDYTMRI FNSDGSEPEMCGNGVRCFARFIAELENLQGTNSFKIHTGAGLII	.....
SEQ	ID	NO:	13	IFVLPGWNGADYTMRI FNSDGSEPEMCGNGVRCFAKFSQLENLHGRHSFTIHTGAGLII	.....
SEQ	ID	NO:	14	IFALPGQQGGTDYTMRI FNSDGSEPEMCGNGGIRCLAKFLADLEGVEEK. TYRIHTLAGVIT	.....
SEQ	ID	NO:	7	181	240
SEQ	ID	NO:	9	PEIQSDGQVKVDMGEPILSGLDIPTKLATKNKAVVQAEELAVEGLTWHVTCVSMGNPHCV	.....
SEQ	ID	NO:	11	PEIQNDGKVKVDMGQPIAC.	.....
SEQ	ID	NO:	13	PEVLEDGNNVRVDMGEPVVKALDVPTKLANKDNNAVVKSQLVVDGVIVWHVTCVSMGNPHCV	.....
SEQ	ID	NO:	14	POLLADGQVKVDMGEPQLLAELIPTTLA PAGEK. VVDLPLAVAGQTWAVTCVSMGNPHCL	.....

FIG. 3 (Continued)

SEQ ID NO: 7	241	300
SEQ ID NO: 9	TFGANELKVLQVDDLKLSSEIGPKFEHHEMFPARTNTTEFQVLSRSHLKMRVWERGAGATL	.....
SEQ ID NO: 11	TESREGSQNLVDELKLAEIGPKFEHHHEVFPARTNTTEFQVLSNSHLKMRVWERGAGATL	.....
SEQ ID NO: 13	.....	.....
SEQ ID NO: 14	TFVDD.....VDSLNLTEIGPLFEHHPPQFSQRTNTTEFQVLSDRLKMRVWERGAGITL	.....
SEQ ID NO: 7	301	359
SEQ ID NO: 9	ACGTGACAVVAAVLEGRAERKCVVDLPGGPLEIEWREDDDNHVYMTGPAEVVFYGSVVFH	.....
SEQ ID NO: 11	ACGTGACATVAAVLEGRAGRNCTVDLPGGPLQIEWREEDDNHVYMTGSADVYYGSLPL	.....
SEQ ID NO: 13	.....	.....
SEQ ID NO: 14	ACGTGACATVAAVLTGRRRCTVELPGGNLIEWSAQDNRLYMTGPAQRVFSQQAEI

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FIG. 4

SEQ ID NO: 24	1 ASSSLFQSLPFSLQTSK. PYAPPKPAAHFV'VRA.....QSPLTQNNNNSSSKHRRPAD									
SEQ ID NO: 25	2 .....LSSCLFNASVSSLNPQDPIRRRSTSSLRHPVISCTADGNNIKAPIETAVKPPHTE									
SEQ ID NO: 27	3)									
SEQ ID NO: 20	4 61									
SEQ ID NO: 22	5 .....MENGAATNGASEKSHSPS									
SEQ ID NO: 24	6 ENIRDEARRINAPHDHHLESAKYVPENADSSSSSTESYSLDEIVYRSQSGLLQHDM									
SEQ ID NO: 26	7 .....DNRDEARR.NRSNAVNPESAKYVPENA.....AFGSTESYSLDEIVYRSRSQGLLDVEHDM									
SEQ ID NO: 27	8)									
SEQ ID NO: 16	9 121									
SEQ ID NO: 18	10									
SEQ ID NO: 20	11 QTYLSTRGDDIGLSFETVV.....									
SEQ ID NO: 22	12									
SEQ ID NO: 24	13 DALKRFDGEYWRNLFDSRVGKTTWPYSGVWSRKREWVLP EIHDIDIVSAFEGN SNLFWAE									
SEQ ID NO: 26	14									
SEQ ID NO: 27	15 EALKRFDGAYWRDLDFDSRVGKSTWPYSGVWSRKREWVLP EIHDIDIVSAFEGN SNLFWAE									
SEQ ID NO: 16	16 181									
SEQ ID NO: 18	17									
SEQ ID NO: 20	18 LKGGLAADGGLFLPPEEVPAATEQSQWKDLPYTELAVKV.....									
SEQ ID NO: 22	19									
SEQ ID NO: 24	20 RFGKQFLGMNDLWVKHCGISHTGSFKDLGMTVLSQVNRLRKMNRPVVGCASTGDTSA									
SEQ ID NO: 26	21									
SEQ ID NO: 27	22 RFGKQFLGMNDLWVKHCGISHTGSFKDLGMTVLSQVNRLRKMNRPVVGCASTGDTSA									
SEQ ID NO: 16	23 240									
SEQ ID NO: 18	24									
SEQ ID NO: 20	25									
SEQ ID NO: 22	26									
SEQ ID NO: 24	27									
SEQ ID NO: 26	28									
SEQ ID NO: 27	29									

FIG. 4 (Continued)

241	SEQ ID NO: 16	NO: 16	300
SEQ ID NO: 18	AL SAYC AAG I PAI VEL PAD RIS LQQLI QPIANG ATVL SLD TDF GCM RLIRE VTA ELP I	.....	.....
SEQ ID NO: 20	.L SLY I SPA E VPTE .....	.....	.....
SEQ ID NO: 22	.....	.....	.....
SEQ ID NO: 24	AL SAYC A SAA I P SIV EL PANK ISLA QL YQI PIANG A FVLS ID TDF GCM QLIRE VTA ELP I	.....	.....
SEQ ID NO: 26	.....	.....	.....
SEQ ID NO: 27	AL SAYC A SAG I P SIV EL PANK ISMA QL WQI PIANG A FVLS ID TDF GCM KLI RE ITA ELP I	.....	.....
301	SEQ ID NO: 16	NO: 16	360
SEQ ID NO: 18	Y LAN SLN P L. RLEG QK TAA IE I LQQ FN WQ VPD W VIV PGG N LGN NI YA FY KG FEM CRV LG LV	.....	.....
SEQ ID NO: 20	.....	.....	.....
SEQ ID NO: 22	SYST FRS KEV VP LVK LE DNL H LLE L F HGP N YSF .....	.....	.....
SEQ ID NO: 24	Y LAN SLN S L. KLEG QK TAA IE I LQQ FD WQ VPD W VIV PGG S N LGN NI YA FY KG FKM FQ E LGL V	.....	.....
SEQ ID NO: 26	Y LAN SLN S L. XLEG QK TAA I RDIA T XN WQ VPG LGH I PRR Q SXT F YA AFL QGF .....	.....	.....
SEQ ID NO: 27	Y LAN SLN S L. RLEG QK TAA IE I LQQ FD WQ VPD W VIV PGG N LGN NI YA FY KG FKM CQ E LGL V	.....	.....
361	SEQ ID NO: 16	NO: 16	420
SEQ ID NO: 18	DR VPR VL VCA QQA ANAN PLY RY YK SGW TE FEP QTA ETTFAS A I QIG D P V S V DRA VV AL KAT D	.....	.....
SEQ ID NO: 20	.....	.....	KDC AL QFL GN L X E Y F
SEQ ID NO: 22	.....	.....	.....
SEQ ID NO: 24	DKI PRL VCA QQA ANAD PLY LY FKS GW KE FKP VKS STT FAS A I QIG D P V S I DRA VH A L K SCD .....	.....	.....
SEQ ID NO: 26	.....	.....	.....
SEQ ID NO: 27	DRI PRM VCA QQA ANAN PLY LY HKS GW KDF KP M TAST FAS A I QIG D P V S I DRA VY AL K K C N .....	.....	.....
421	SEQ ID NO: 16	NO: 16	480
SEQ ID NO: 18	GIVE EAT EEE LMDATA LAD RTGM F ACP HTG V A A L F K LQG QRI I G P N DRT VV STAH GL .....	.....	.....
SEQ ID NO: 20	.....	.....	.....
SEQ ID NO: 22	DA MV QAD STG M FIC P HTG V A A L I K L R N RG V I G A G E R V V V STAH GL .....	.....	.....
SEQ ID NO: 24	GIVE EAT EEE LMDATA QAD STG M FIC P HTG V A L T A F K L R N S G V I K A T DRT VV STAH GL .....	.....	.....
SEQ ID NO: 26	.....	.....	.....

FIG. 4 (Continued)

SEQ	ID	NO: 27	GIVEEATEEEELMDAMAQADSTGMFICPHTGVALTAFLKLRNQGVIAPTDRTVVVSTAHGL
		481	
SEQ	ID	NO: 16	KFTQSKIDYHDKNIKDMVCOYANPPISVKADFGSVMDFVLQKN.....LNGKI.....
SEQ	ID	NO: 18	.....MACKYSNPPVSVKADEFGAVMDVLKKR.....LKGKL.....
SEQ	ID	NO: 20	.....
SEQ	ID	NO: 22	KFAQSKIDYHSGLIPGMG. RYANPLVSVKADEFGSVMDFVLKDSCTTSPPTLTSLDVAK.....
SEQ	ID	NO: 24	KFTQSKIDYHSKDIKDMACRYANPPMQVKADEFGSVMDFVLKTY.....LQSKA...H
SEQ	ID	NO: 26	.....
SEQ	ID	NO: 27	KFTQSKIDYHSNAIPDMACRFSNPPVVDVKADFGAVMDVLKSY.....LGSNTLTS
			537

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FIG. 5

1	60
SEQ ID NO:29
SEQ ID NO:31
SEQ ID NO:33
SEQ ID NO:34	MASHDYLKKILTARVYDVAFETELEPARNLSARLRLNPVYLKREDNQPVFESEKLRGAYNKM
61	120
SEQ ID NO:29	.....
SEQ ID NO:31	.....
SEQ ID NO:33	.....
SEQ ID NO:34	AHTPADALRGVITASAGNHAQGVAFSAARMGVKAVIVVPPVTTPQVKVDAVRAHGGPGVE
121	180
SEQ ID NO:29	SYDEAQSYAK.....LRCQQE.GRTFVPPFDHPDVITGQGTIGMEIVRQLQGPLHAIFFVP
SEQ ID NO:31	.....
SEQ ID NO:33	.....
SEQ ID NO:34	VIQAGESYSDAYAHALKVQEERGLTFVHPFDPPYVIAGQGTIAIMEILRQHQGPPIHAIFVP
181	240
SEQ ID NO:29	VGGGLIAGIAAYVKRVRPEVKIIGVEPSDANAMALSLCHGKRVMLEHVGFFADGVAVKA
SEQ ID NO:31	.....
SEQ ID NO:33	.....
SEQ ID NO:34	IGGGGLAAGWAAVKWRPEIKVIGVQAEDSCAMAQSIIQAGKRVELAEVGLFADGTAVKL
241	300
SEQ ID NO:29	VGEETFRLCRELVDGIVMVSRAICASIKDMFEEKRSILEPAGALALAGAEAYCKYNNLK
SEQ ID NO:31	.....
SEQ ID NO:33	.....
SEQ ID NO:34	VGEETFRLCKEYLDGVVTVDTDALCAAIKDWQDTRSVLEPSGALAVAGAKLYAEREGIE

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FIG. 5 (Continued)

SEQ ID NO: 29	301	GETVVAITSGANMNFDRRLRVTELA DVGRKREAVLATFLPERQSFKKFT ELVGRMNI TE
SEQ ID NO: 31	360	..NIVAITSGANMNFDKLRRV TELANVGRKQEAVLATVMA EEPGSFKQFCELVGQMNI TE
SEQ ID NO: 33	..	..
SEQ ID NO: 34	..	..
SEQ ID NO: 29	361	FKYRYDSNAKDALVLYSGIYT DNELGAMMDRME SAKLRTVNLTNDLAKDH LRYFIGGR
SEQ ID NO: 31	420	FKYRYNSNEK. AVVLYSGVHT ISELRAMQ ERM ESS SQL KTY NLT ES DLV KDH LRY LMG GR
SEQ ID NO: 33	..	..
SEQ ID NO: 34	..	..
SEQ ID NO: 29	421	FNYRI. ADAQSAH IFVG VQIR RGE SADIA IANF ESH GFK TADL LTH DEL SKE H IRY M V G GR
SEQ ID NO: 31	480	SEIK. DEL VY RF I F P ER P G A L M K F L D T F S P R W D I S L
SEQ ID NO: 33	..	..
SEQ ID NO: 34	..	..
SEQ ID NO: 29	481	SNVQ. NEV VV SP P X P R K T G A L M K F L D P E S P R W N I S L F Y R G E G E T G A N V L V G I Q V P K S E M
SEQ ID NO: 31	512	SP AL D E R L F R E E F P E R P G A L M K F L S M A P D W N I S L F Y R N Q G A D Y S S I L V G L Q V P Q A D H
SEQ ID NO: 33
SEQ ID NO: 34
SEQ ID NO: 29
SEQ ID NO: 31
SEQ ID NO: 33
SEQ ID NO: 34

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FIG. 6

SEQ ID NO:36 126 CGAGATCAAAGAACATGGCAGCTCTGACACCTTCCCTGACTGGAGTCGTGAACG 185
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO:37 774 CGAGATAGGAAAGATGGCCGCACTTGTACCTTCCTTACCTCGGAGTCGTGAACG 833
 SEQ ID NO:36 186 AGGGACACCTGTACAAGCTCTGGGACCCAGGTCTCAGATGCCTTCTTGACGCTTGCCTTG 245
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO:37 834 AGGGCCACCTGTACAAGCTCTGGGACCCAGGTCTCAGATGCCTGATGGCTGCCTCG 893
 SEQ ID NO:36 246 CTGAGGACCTGTGACAGGCAAGGTTGGTTGTGAGAACCTGCACCAAGACCAACATGGTCATGG 305
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO:37 894 CGAGGACCTGTGACAGCAAGGTGCAAGGTGACCAAGGTGAGACCTGCACCAAGCAACATGGTCATGG 953
 SEQ ID NO:36 306 TCTTGGTGGAGATCACCACCAAGGCCAATGTGCACTACGAGAAAGATTGTCAGGGAGACCT 365
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO:37 954 TCTTGGTGGAGATCACCACCAAGGTAAACGTTGACTATGAGAGAAGATTGTCAGGGAGACAT 1013
 SEQ ID NO:36 366 CGCGAACATTGGTTTGTCAAACGATGTGCGGCTTGACGCTGACCAACTGCAAGGTGC 425
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO:37 1014 GCCGTAACATCGGTTTGTGTCAGGTGATGTGCTGACCTGCAAGGTGC 1073
 SEQ ID NO:36 426 TCGTGAACATTGGCAGCAGTCAGTCCCCCTGATATTGCTCAGGGTGTGCACTTCACCA 485
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO:37 1074 TTGTGAACATCGGCAAGTCAGTCCCCCTGACATTGCACAGGGTGTGCACTTCACCA 1133
 SEQ ID NO:36 486 AGGCCCGAGGAGATTGGAGCTGGTACCAAGGGACACATGGTGGTATGGCAGCCGATG 545
 ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO:37 1134 AGGCCCTGAGGAGATTGGTGGTACCAAGGGACACATGGTGGATATGCAACTGATG 1193
 SEQ ID NO:36 546 AGACCCCTGAGTTGATGCCATGTCCTGGCACAGCTAGTTGGATATGCAACTTCACCA 605
 ||||| ||||| ||||| ||||| |||||
 SEQ ID NO:37 1194 AGACCCCTGAGTTGATGCCATGTCCTGGCACAGCTGGCTCGTCTTA 1253

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FIG. 6 (Continued)

SEQ ID NO: 36	606	CCGAGGTCCGCAAAGAACCGGAACCTGCCCCCTGGCTCAGGCCCTGATGGAAAGCCAGGTGA	665
SEQ ID NO: 37	1254	CGGAGGTTCGCAAGAACGGACTGGCTAGGCTCAGGGAAAGCCAAAGTGA	1313
SEQ ID NO: 36	666	CAAGTCGAGTACCGCAATGAGGGTGGCCATGGTCCCGATCCGGTCCACACCGTCCCTCA	725
SEQ ID NO: 37	1314	CTGTTGAGTACCGCAATGAGAGCGGTGCCAGGGTCCCTGTCGGTCCACACCGTCCCTCA	1373
SEQ ID NO: 36	726	TCTCCACCCAGCACGAGAACAGTGACCAATGAGATGAGATCGCTGACCTGAAGGAGC	785
SEQ ID NO: 37	1374	TCTCTACCCAGCATGATGAGAACAGTCACCAACGATGAGATTGCTGCTGACCTGAAGGAGC	1433
SEQ ID NO: 36	786	ATGTCATCAAGCCTATCATCCCTGAGCGATGACCTTGACCGAGAACCATCTTCACCTTA	845
SEQ ID NO: 37	1434	ATGTCATCAAGCCTGTCATTCGGCAGTACCTTGATGAGAACAAATCTTCATCTTA	1493
SEQ ID NO: 36	846	ACCCATCCGGCGCTTTGTCATTGGGACCTCACGGGGATGCTGGCTCACTGGCCGCA	905
SEQ ID NO: 37	1494	ACCCATCTGGTCGCTCATGGGGACCTCATGGTGTATGGCTCACTGGCCGGA	1553
SEQ ID NO: 36	906	AGATCATCATTGACACCTACGGGGCTGGGAGCCATGGGGATGCTTCGGCA	965
SEQ ID NO: 37	1554	AGATCATCATTGACACTTATGGGGCTGGGGAGCTACGGTGTGCTCTGGCA	1613
SEQ ID NO: 36	966	AGGACCCAACCAAGGTGACCGAGGGAGCCTATGTCGGAGGAGGCTGGCAAGAGCA	1025
SEQ ID NO: 37	1614	AGGACCCAACCAAGGTGACCGAGGGAGCCTATGTCGGAGGAGGCTGGCAAGAGCA	1673
SEQ ID NO: 36	1026	TGTCGGCAGGGCCTGGCTGCCGCATCGTCCAGGTGCTAGGCCATGGCGTGC	1085
SEQ ID NO: 37	1674	TTGTTGCTAGGGCTTGGCTGCCGTGCATTGCTGAGTACGCCATGGGTGTC	1733

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FIG. 6 (Continued)

SEQ	ID	NO: 36	1086	CCGAGCCCTCTCCGTGTTGACACGTACGGCACGGGACCCGAAAGGAGA	1145
SEQ	ID	NO: 37	1734	CAGAGCCACTGTCCGTATTGCTGACACATACGGCAGGATCCCTGACAAGGAGA	1793
SEQ	ID	NO: 36	1146	TCCTCAAGATTGTCAGGAGAACTCGATTCAGGCTGGATATTATCAACCTG	1205
SEQ	ID	NO: 37	1794	TCCTCAAGATTGTAAGGAGAACTCGACTTCAGGCTGGCATGATCATCACCTG	1853
SEQ	ID	NO: 36	1206	ACCTCAAGAAGGGGAAACGGGGCTACCTCAAGACGGCAGCTACGGCACTTGGAA	1265
SEQ	ID	NO: 37	1854	ACCTCAAGAAGGGGAAACGGGACGCTACCTCAAGACGGTACGGTACCTGGAA	1913
SEQ	ID	NO: 36	1266	GGGACGACCCCTGACTTCACCTGGGGAGGGGGTCAAGTGGAGAAACCTTCTG	1325
SEQ	ID	NO: 37	1914	GGGACGACCCCTGACTTCACCTGGAGGGTCAAGTGGAGGGCTCTG	1973
SEQ	ID	NO: 36	1326	CCTAAGGGGGCTTT	1341
SEQ	ID	NO: 37	1974	CCTAAAGGCTCCCTT	1989

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FIG. 7

SEQ ID NO: 38	80	GAGACATCCTATTACCTCAGACTCAGTGAACGAGGGACACCCCTGACAAAGCTCTGGGAC	139
SEQ ID NO: 40	123	GAAGACTTCTTATTACCTCCGAGTCGTGAAACGGAGGGTCAACCAAGCAAGCTCTGTGAT	182
SEQ ID NO: 38	140	CAAATCTCCGATGCTGCTCGACCGCTTGCCTGAAACGGACCCAGACAGCAAGGGTGCCTGCC	199
SEQ ID NO: 40	183	CAGATCTGTGAGTTCTGATGCCCTGCTTGAGCAAGATCCCAGAGCAAAAGTTGCA	242
SEQ ID NO: 38	200	TGCGAAACATGCACCAAGACCAACTTGGTCACTGGTCTTGGAGAGATCACCACCAAGGCC	259
SEQ ID NO: 40	243	TGTGAAACATTGACCCAAAGACCAACTTGGTCACTGGTCTTGGTGAAGTCACAAACCAAGGCT	302
SEQ ID NO: 38	260	AACGTTGACTACGGAGAAGATCGTGCCTGACACCTGCAGGAACATCGGCTTCGTCTCAAAC	319
SEQ ID NO: 40	303	ATTGTTAGACTATGAGAAGATTGGCTGACACATGCCGTAATATTGGATTGGTTCTGTGAT	362
SEQ ID NO: 38	320	GATGGGGACTTGTATGGTACAACGTGCAAGGTCCTTGTAAACATTGGCAGGAGCCCT	379
SEQ ID NO: 40	363	GATGTTGGTCTTGATGCTGACAACATGCAAGGTCTTACATTGAGCAGCAAAGTCCT	422
SEQ ID NO: 38	380	GATATTGCCAGGGTGTGCCACGCCACCTTACCAAAAGACCCGAGGAATGGTGTGGA	439
SEQ ID NO: 40	423	GATATTGCTCAAGGTCTCAGGGCCACATCTGCCAACGCCATCTGCCAACGGAGATTGGTGTGGT	482
SEQ ID NO: 38	440	GACCAGGGTCACTGTTGGCTATGCCACGGACGAAACCCAGAATTGATGCCATTGAGT	499
SEQ ID NO: 40	483	GACCAGGGCCACATGTTGGCTATGAGAACATGAGACGGAGATTGGTGTGGT	542
SEQ ID NO: 38	500	CATGTTCTTGCRACTAAACTCGGTGCTCAGGAGGGTTCGGCAAGAACGGAACTG	559
SEQ ID NO: 40	543	CACGTGCTGCAACTAAACTTGGTGCCTTACAGAAGTCGGCAAGAATGGCACCTG	602

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FIG. 7 (Continued)

SEQ ID NO: 38	560	CCATGGTTGGGCCCTGATGGAAACCCAGTGACTGGTGGATATAATGACAACGGT	619
SEQ ID NO: 40	603	GCCTGGTTGGCCCTGATGGCAGAACCCAGTGACTGGTGGATATAATGACAATGGT	662
SEQ ID NO: 38	620	GCCATGGTCCAGTTCGTTCCACACTGTGCTTATCTCCACCCAACTGATGAACTGTG	679
SEQ ID NO: 40	663	GCCATGGTCCAAATTAGGGTACACACTGTCTTATCTCCACCCAAACAGTGAACCGTT	722
SEQ ID NO: 38	680	ACCAACGACGAAATTGCAGCTGACCTCAAGGAGCATGTGATCAAGCCGGTATCCGGAG	739
SEQ ID NO: 40	723	ACCAATGATGAGATGCCCGCACCTTAAGGAGCATGTCAACCAACAGTCATCCCAAGAG	782
SEQ ID NO: 38	740	AAGTACCTTGATGAGAACCCATTTCACCTGAAACCCCTCTGGCGTTTGTATGG	799
SEQ ID NO: 40	783	AAGTACCTTGATGAGAATACTTTCCACCTTAACCCATCTGGCGATTGTTATGGT	842
SEQ ID NO: 38	800	GGTCCTACGGTGTGGTCTACGGGGCGCAAGATCATGATACTTACGGAGGA	859
SEQ ID NO: 40	843	GGACCTCATGGTGTGGTCTACGGTGTGGTCAACTCATGACACTTATGGTGGT	902
SEQ ID NO: 38	860	TGGGGTGTCTATGGTGTGGTCTCAGGGCAAGGATCCACCAAGGTTGTTAGGGT	919
SEQ ID NO: 40	903	TGGGGTGTCTATGGTGTGGTCTCAGGGCAAGGATCCACCAAGGTCGACAGGGT	962
SEQ ID NO: 38	920	GGTGCCTACATTGGAGACGGGTGCTAAGGAGCTTGGCAAGTGGACTAGCCAGAAGG	979
SEQ ID NO: 40	963	GGTGCATACATGIAAGGCAGGGTGCACAGGATCTGTTAGCTGACTTGTCTGTTAGA	1022
SEQ ID NO: 38	980	TGCATTGGCAAGTGTCTTATGCCATTGGTGTGGCCGAGCTTGTGTTGAC	1039
SEQ ID NO: 40	1023	TGCATGGCAGGTATCTTATGCCATTGGTGTGGCTGAGCTTGTGTTGAC	1082

FIG. 7 (Continued)

SEQ ID NO: 38 1040 ACCTATGGCACCGGGAAAGATCCATGATAAGGGAGATTCTCAACATTTGAAAGGGAAACTTT 1099
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO: 40 1083 ACCTATGGCACTGGAAAGATCCCTGACAGGAAATTGAAAGATGGTAAGGGAAACTTT 1142
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO: 38 1100 GATTTCAGGGGGATGATCTCCATCAACCTTGATCTCAAGGGGGGGAAATAACAGG 1159
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO: 40 1143 GACTTCTGACCTGGATGTTGTCATTAACCTGGATTGATTTGAGAGGGGGGGGATAGAGA 1202
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO: 38 1160 TTCTTGAAAGACTGGCATATGGACACTTGGCAGAGGGACCCCTGACTTCACATGGAA 1219
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO: 40 1203 TTCTGAAAAGCTGGCTATGGTCACTTGGACGTGATGACCCGATTTCACATGGAA 1262
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO: 38 1220 GTGGTCAAGCCCTCAAGTGGAGAAGGCCATTCACTGGCAATGGCTG 1279
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO: 40 1263 GTGGTCAAGCCCTCAAGTGGAAAAGCCCAAGACTAATAGGCTTGCCTATGGTTT 1322
 ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
 SEQ ID NO: 38 1280 GGAGTTTTTT 1289
 |||||
 SEQ ID NO: 40 1323 GTTCTTGT 1332

FIG. 8

SEQ ID NO:42	41	AGCAGGGCAAGGGCATCGCTAGGCACTAAAGAAATGGCAGCGAGCTTCCTTCACGT	100
SEQ ID NO:43	23	AACTGCACGAGGCATCTCAACCAAGAAATGGGGCGAGACGTTCCCTTCACGT	82
SEQ ID NO:42	101	CCGAGTCTGTGAACGAGGGCATCCGAAGGCTCTGTGACCAAGTCTCCGACGCCGCT	160
SEQ ID NO:43	83	CCGAGTCCGTGAGGGCATCCGACAAAGCTGTGCGACCAAGGCTCTGAAGCCGCT	142
SEQ ID NO:42	161	TGGATGCCCTGCCAGGATGCCGAAGCAAGGTGCCCTGGAGACCGTCACCAAGA	220
SEQ ID NO:43	143	TGGAGCCCTGCTTGGCCAGGATCCTGACAGCAAGGTTGCTTGAGACCTGACCAAGA	202
SEQ ID NO:42	221	CCAACATGGTCATGGCTTGGGAGATACCACCAAGGCCACCGTCGACTATGAGAAGA	280
SEQ ID NO:43	203	CCAACATGGTCATGGCTTGGGAGATACCACCAAGGCCACCGTTGACTATGAGAAGA	262
SEQ ID NO:42	281	TCGTGGGTGACACTGCCGCAACATGGTTCACTCTGTGACCTGGTCTGACGCCG	340
SEQ ID NO:43	263	TTGTGGCGGACACTGCCGTGACATGGCTCATCTGTGACGCCG	322
SEQ ID NO:42	341	ACCGTTGCAARGTGTGTCGTCACATCGAGCAGCTGGCTGACATTGCCAGGGTGTTC	400
SEQ ID NO:43	323	ACCATTGCAAGGTGTCGTCACATCGAGCAGCTGGCTGACATTGCCAGGGTGTTC	382
SEQ ID NO:42	401	ATGGACACTTCACCAAGGTCCCGAGAAAGTGGCGCCGGTGAACAGGGCATCATGTTCG	460
SEQ ID NO:43	383	ACGGACACTTCACCAAGGTGTCAGAAGGTTGCGGCTGACAGGGCATCATGTTG	442

FIG. 8 (Continued)

SEQ	ID	NO:42	461	GCTATGCCACCGATGAGACCCCTGAGCTGATGCCCTCAAGCACGTGCTTGCACCAAGC	520
SEQ	ID	NO:43	443	GCTACGCCACTGATGAGACCCCTGAGCTGATGCCCTCACCCACATGCTTGCACCAAGC	502
SEQ	ID	NO:42	521	TYGGAGGTCGCCTCACSGAGGTCGCCAAGAATGGCACCTGCGCCTGGCTGAGC	580
SEQ	ID	NO:42	503	TCGGAGCTGCCTCACCGAGGTCGCCAAGAATGGCACCTGCGCCTGGCTCAGGCC	562
SEQ	ID	NO:42	581	GAAAAGACCCAGGTACAGTCAGGTACCTAACAGGAGATGGTACCTGTTCGTG	640
SEQ	ID	NO:43	563	GAAAAGACCCAGGTACCATGGTACCCATGGTACCTAACAGGGGGTCCATGGT	622
SEQ	ID	NO:42	641	TGCACACCGTCCATCTCCACCCAGCACGAGACCGTCAACCAACGAGGATTCG	700
SEQ	ID	NO:43	623	TGCACACCGTCCATCTCCACCCAGCATGATGAGACCGTCAACCAACGATG	682
SEQ	ID	NO:42	701	CGGACCTCAAGGAGCATGTCATCAAGCCGGTATCCCCTGATGAGAACAA	760
SEQ	ID	NO:43	683	CAGACCTCAAGGAGCATGTCATCAAGCCGGTGAATTCCCGGAAGTACCTG	742
SEQ2	ID	NO:42	761	CCATCTTCCACCTGAACCCGTTGGCCGCTTCGTCACTGGGCCCTCAGGG	820
SEQ	ID	NO:43	743	CCATCTTCCACCTGAACCCATGGGCCGCTCATGGTGCATGGGCCCTCAGGG	802
SEQ	ID	NO:42	821	GTCTCACCGGCCGCAAGATCATCATCGACACCTATGGGGCTGGGAGCC	880
SEQ	ID	NO:43	803	GTCTCACCGGCCGCAAGATCATCATCGACACCTATGGGGCTGGGAGCC	862
SEQ	ID	NO:42	881	GTGCCCTCTCTGGCAAGGACCCATCGACACCTATGGGGCTGGGAGCC	940
SEQ	ID	NO:43	863	GTGCCCTCTCTGGCAAGGACCCATCCAAGGTCGACCGCAGTGGCC	922

FIG. 8 (Continued)

SEQ ID NO:42	941	ARGCCGCCAAGAGCATCATCGCAGGGCCCTCGCACGCCGCTGCAATTGTGCAGATCTCAT	1000
SEQ ID NO:43	923	AGGCTGCCAAGAGCATCATCGCAGGGCCCTCGCACGCCGCTGCAATTGTGCAGATCTCAT	982
SEQ ID NO:42	1001	ACGCCATCGGTGTGCCCTGAGCCCTTGTCTGTTCTGACTCCTACGGCACCGGCAAGA	1060
SEQ ID NO:43	983	ATGCCATCGGTGTACCTGAGCCCTTGCTGTGTTCTGACTCCTACGGCAGTGGCAGA	1042
SEQ ID NO:42	1061	TCCCCGACAGGGAGATCCTCAAGCTCGTGAAGGAGAACCTTGACTCTAGGCCGGATGA	1120
SEQ ID NO:43	1043	TCCCCTGACAGGGAGATCCTCAAGCTCGTGAAGGAGAACCTTGACTCTAGGCCGGATGA	1102
SEQ ID NO:42	1121	TCAGGATCAACCTGGACTTGAAGAAAGGTGGAACAGGGTTCATCAAGACCGCTGCTTACG	1180
SEQ ID NO:43	1103	TACCGATCAACCTCGACTTGAAAGGTGGAACAGGGTTCATCAAGACAGCTGCTTACG	1162
SEQ ID NO:42	1181	GTCACTTGGCCGTGATGACTGGGACTTCACCTGGGGTGGTGAAGCCCTCAAGTTCG	1240
SEQ ID NO:43	1163	GTCACTTGGCCGTGATGACTTCACCTGGGGTGGTGAAGCCCTCAAGTTCG	1222
SEQ ID NO:42	1241	ACAAGGCATCTGCCATAAGAGCATGGCAT	1268
SEQ ID NO:43	1223	ACAAGGCATCTGCCATAAGAGACAT	1250
SEQ ID NO:42	1271	TCTTGGCTGCCGCTCTCAAGTTGTCAGGTTGCTCCGGAAAGTGGG	1330
SEQ ID NO:43	1266	TCTTGGCTGATGCCCTCAAGTTGGCAAGGGGGATCCTTGGCTCCGGAAAGTAAAG	1325
SEQ ID NO:42	1331	AAGAAGCATTAGACATTG	1348
SEQ ID NO:43	1326	AAGAAGCATTCAACATCG	1343